

國立中山大學應用數學系

學術演講

講者：陳志瑋 教授 (國立中央大學數學系)
講題：Classification of irreducible representations of Lie superalgebras
時間：2021/12/09 (Thursday) 15:10 ~ 16:00
地點：理 SC4009-0 教室
茶會：14:30

Abstract

The Lie superalgebras \mathfrak{g} are generalizations of Lie algebras to include \mathbb{Z}_2 -gradations $\mathfrak{g} = \mathfrak{g}_0 \oplus \mathfrak{g}_1$. They provide an important tool for physicists in the study of supersymmetries.

In this talk, we will begin with classical results in the representation theory. We will survey the state of the classification problem of irreducible representations for complex Lie algebras and superalgebras. We explain the connection between irreducible representations of \mathfrak{g} and irreducible representations of the underlying Lie algebra \mathfrak{g}_0 .

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